

## ABSTRACT

A keyed power source connector (32) and keyed  
5 device connector (14) that are backwards compatible,  
ensuring that the power rated device connectors can  
only mate with power source connectors power rated at  
or above the device connector power rating. One  
connector is formed as a plug, and the other connector  
10 is formed as a socket. The connectors have peripheral  
contoured body portions (16, 34) having a profile  
being a function of the respective connector power  
rating. A keyed portion (41, 62, 72, 82) of the power  
source connector plug will physically interfere with  
15 and not be receivable within a device connector socket  
when the device connector power rating exceeds the  
power source connector power rating. This connector  
system (10) ensures target portable electronic devices  
coupled to the device connector can not draw power  
20 exceeding the rating of the power source connector.